

QTY: 4

### **3D Optical Profiler System Requirements**

#### **Key Features**

- Measurement Capability - non-contact, three-dimensional measurement (Scanning white light interferometry)
- Vertical Scan Range – at least 20 mm
- Capable to accommodate tall parts or fixtures (at least 70mm tall)
- Vertical Res. < 0.1 nm
- Lateral Res. 0.4 to 10  $\mu\text{m}$ ; objective dependent
- Vertical Scan Rate up to 130  $\mu\text{m}/\text{sec}$
- Maximum Data Points at least 300,000
- RMS Repeatability < 0.01 nm RMS ☐
- Step Height Repeatability ☐ 0.1% @ 1 ☐
- 5-Axis Motorized X-Y-Z, Tip/Tilt Stage
  - tip tilt at least  $\pm 4$ -degree
  - X-Y travel range at least 3in x 3in
- Motorized 6-position Turret with the following objectives installed 1X, 5X, 10X, 50X
- Automated multiple zoom system - 0.5X, 1X
- Analysis software, computer, and monitor
- Vibration Isolation Table suitable for class 1000 clean room